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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/910,952	07/24/2001	Duck Chul Hwang	1567.1015/MDS/JGM	3638
49455	7590	09/12/2005	EXAMINER	
STEIN, MCEWEN & BUI, LLP 1400 EYE STREET, NW SUITE 300 WASHINGTON, DC 20005			WEINER, LAURA S	
			ART UNIT	PAPER NUMBER
			1745	

DATE MAILED: 09/12/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No.		Applicant(s)	
	09/910,952		HWANG ET AL.	
	Examiner		Art Unit	
	Laura S. Weiner		1745	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 29 June 2005 and 28 July 2005.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 2-40 is/are pending in the application.
- 4a) Of the above claim(s) 5-7 and 18-28 is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 2-4, 8-17 and 29-40 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|---|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

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DETAILED ACTION

Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 7-28-05 has been entered.

Response to Arguments

2. Applicant's arguments filed 6-29-05 have been fully considered but they are not persuasive.

The claims remain rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention. The reasons are discussed below.

The Declaration under Rule 132 filed 6-29-05 has been received. It is agreed that this is one of the common ways to label viscosity but it is not the only way. Viscosity can be described by using units of poise, centipoises, Pa, etc. The units of viscosity needed to be present in the specification and the claims when the application was filed.

Therefore, the rejection still remains.

Applicant argues that the Declaration under Rule 132 filed 10-2-03 was filed to declare the non-obvious of claimed ranges in that the range points for solvent concentrations of 30% and 70% were envisioned. The declaration has been reviewed. In regard to the non-obvious of claimed ranges, the rejections over Simon et al., Skotheim et al. and Dahn et al. have been withdrawn. In regard to the solvent concentrations of 30% and 70% being envisioned, it is noted but nowhere in the specification is these concentrations cited. The specification on page 5, [0023], states that "it is preferable to use roughly between 20-80% by volume of the first and second solvent". Other ranges points mentioned are on pages 7-8, Tables 1-2 in which the first solvent is 40% and the second solvent is 60% or the first solvent is 50% and the second solvent is 50%. In claims 4, 11, 33 and 37, there is no data points for the first solvent being between 20% to 30% by volume. There is no support for claiming 30% by volume as a range point. There is support for 20-80 % by volume or 20-40% by volume.

In claims 12, 32 and 36, there is no support in the specification for the phrase "the second solvent is between 70% and 80% inclusively by volume of the electrolyte". There is no support for claiming 70% by volume as a range point. There is support for 20-80% by volume or 60-80% by volume.

In addition, the identifier label of claims 3 and 15 are incorrect because these claims are not withdrawn but have been examined.

Election/Restrictions

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3. Claims 5-7, 18-28 are withdrawn from further consideration pursuant to 37 CFR 1.142(b), as being drawn to a nonelected species, there being no allowable generic or linking claim. Applicant timely traversed the restriction (election) requirement in the reply filed on 12-8-03.

Claim Rejections - 35 USC § 112

4. Claims 2-3; 4, 8-9, 29-30; 10, 31-35; 11; 12-13; 14-17, 36-40 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention.

In claims 2,4, 10-12, there is no support for defining the viscosity with units of cP (centipoises). It is agreed that this is one of the common ways to label viscosity but it is not the only way. Viscosity can be described by using units of poise, centipoises, Pa, etc. The units of viscosity should have been present in the specification and claims when the application was filed.

In claims 4, 11, 33 and 37, there is no support in the specification for the phrase "between 20% inclusively and 30% by volume of the electrolyte". There is no support for claiming 30% by volume as a range point. There is support for 20-80 % by volume or 20-40% by volume.

In claims 12, 32 and 36, there is no support in the specification for the phrase "the

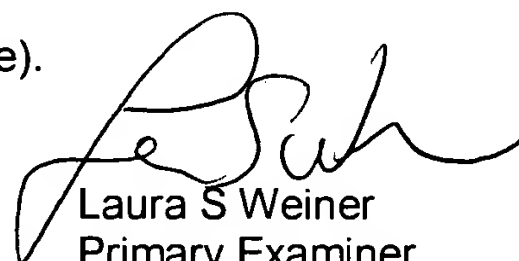
second solvent is between 70% and 80% inclusively by volume of the electrolyte".

There is no support for claiming 70% by volume as a range point. There is support for 20-80% by volume or 60-80% by volume.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Laura S Weiner whose telephone number is 571-272-1294. The examiner can normally be reached on M-F (6:30-4:00).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Patrick Ryan can be reached on 571-272-1292. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



Laura S Weiner
Primary Examiner
Art Unit 1745

September 8, 2005